

What is claimed is:

1. An odor control product for treating digestible and odiferous organic waste to minimize odors, including adipic acid, alcohol, and water.

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2. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 1, further including eucalyptus oil.

3. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 1, wherein the product includes about 12.5% adipic acid, about 70% alcohol, and the remainder water.

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4. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 2, wherein the product includes about 12.5% adipic acid, about 70% alcohol, about 0.5% eucalyptus oil, and the remainder water.

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5. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 1, wherein the water is distilled.

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6. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 1, wherein the water is de-ionized.

7. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 2, wherein the product includes from about 10% to about 15% adipic acid, from about 65% to 75% alcohol, from about 0.25% to 2% eucalyptus oil, and the remainder water.

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8. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 1, wherein the alcohol is ethanol alcohol.

9. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 1, further including vegetable oil.

10. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 9, wherein the vegetable oil is corn oil.

11. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 9, further including eucalyptus oil.

12. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 9, wherein the odor control product is filtered after blending to remove particles larger than approximately one micron in size.

13. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 9, wherein the product includes about 12.5% adipic acid, about 9% alcohol, about 17% vegetable oil, and the remainder water.

14. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 11, wherein the product includes about 12.5% adipic acid, about 9% alcohol, about 17% vegetable oil, about 0.2% eucalyptus oil, and the remainder water.

15. An odor control product for treating digestible and odiferous organic waste to minimize odors as set forth in claim 11, wherein the product includes from about 10% to about 15% adipic acid, from about 7% to 12% alcohol, from about 15% to 20% vegetable oil, from about 0.1% to 2% eucalyptus oil, and the remainder water.

16. A method of treating digestible and odiferous organic waste to minimize odors including the steps of:

5 preparing a solution of adipic acid, alcohol, and water; and  
introducing the solution to the waste.

17. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 16, wherein the step of preparing a solution includes using  
10 eucalyptus oil in the solution.

18. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 16, wherein the step of preparing a solution includes using a mixture of about 12.5% adipic acid, about 70% alcohol, and the remainder water.  
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19. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 17, wherein the step of preparing a solution includes using a mixture of about 12.5% adipic acid, about 70% alcohol, about 0.5% eucalyptus oil, and the remainder water.  
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20. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 17, wherein the step of preparing a solution includes using a mixture of from about 10% to about 15% adipic acid, from about 65% to 75% alcohol, from about 0.25% to 2% eucalyptus oil, and the remainder water.  
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21. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 16, wherein the step of preparing a solution includes using vegetable oil in the solution.

22. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 21, wherein the step of preparing a solution includes using eucalyptus oil in the solution.

5           23. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 21, wherein the step of preparing a solution includes using a mixture of about 12.5% adipic acid, about 9% alcohol, about 17% vegetable oil, and the remainder water.

10           24. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 22, wherein the step of preparing a solution includes using a mixture of about 12.5% adipic acid, about 9% alcohol, about 17% vegetable oil, about 0.2% eucalyptus oil, and the remainder water.

15           25. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 22, wherein the step of preparing a solution includes using a mixture of from about 10% to about 15% adipic acid, from about 7% to 12% alcohol, from about 15% to 20% vegetable oil, from about 0.1% to 2% eucalyptus oil, and the remainder water.

20           26. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 21, further including the step of filtering the solution to remove particles larger than approximately one micron in size.

27. A method of treating digestible and odiferous organic waste to minimize odors including the steps of:

preparing a solution of adipic acid, alcohol, and water;

introducing the solution into a container; and

adding the organic waste into the container.

28. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 27, wherein the step of preparing a solution includes using eucalyptus oil in the solution.

29. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 27, wherein the step of preparing a solution includes using a mixture of about 12.5% adipic acid, about 70% alcohol, and the remainder water.

30. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 28, wherein the step of preparing a solution includes using a mixture of about 12.5% adipic acid, about 70% alcohol, about 0.5% eucalyptus oil, and the remainder water.

31. A method of treating digestible and odiferous organic waste to minimize odors as set forth in claim 28, wherein the step of preparing a solution includes using a mixture of from about 10% to about 15% adipic acid, from about 65% to 75% alcohol, from about 0.25% to 2% eucalyptus oil, and the remainder water.

32. The use of adipic acid to control odors from digestible and odiferous organic waste.

33. The use as set forth in claim 32, wherein the adipic acid is in a solution that includes adipic acid, alcohol, and water.

34. The use as set forth in claim 33, wherein the solution further includes eucalyptus oil.

5 35. The use as set forth in claim 33, wherein the solution includes about 12.5% adipic acid, about 70% alcohol, and the remainder water.

36. The use as set forth in claim 34, wherein the solution includes about 12.5% adipic acid, about 70% alcohol, about 0.5% eucalyptus oil, and the remainder water.

10 37. The use as set forth in claim 33, wherein the water is distilled.

38. The use as set forth in claim 33, wherein the water is de-ionized.

15 39. The use as set forth in claim 34, wherein the solution includes from about 10% to about 15% adipic acid, from about 65% to 75% alcohol, from about 0.25% to 2% eucalyptus oil, and the remainder water.

40. The use as set forth in claim 33, wherein the alcohol is ethanol alcohol.

20 41. The use as set forth in claim 32, wherein the adipic acid is incorporated into a crystallized urinal block.

42. The use as set forth in claim 32, wherein the solution further includes  
25 vegetable oil.

43. An odor control system in a portable restroom facility having an enclosure, a waste storage tank with an opening therein, toilet set mounted above the opening, and a vent tube, the odor control system including:

an odor control product including about 12.5% adipic acid, about 70% alcohol,  
5 about 0.5% eucalyptus oil, and the remainder water which is introduced into the waste storage tank;

a toilet seat shutter device located between the toilet seat and the waste storage tank opening including:

10 a shutter panel composed of a plurality of panels mounted slideably relative to one another;

a lever communicating with said shutter panel to open and close said panels;

a pin pivotably connected with the lever and positioned beneath the toilet seat;

15 a spring biasing the pin in an upward position, wherein the weight of a user on the toilet seat forces the pin downward, pivoting the lever and opening the panels; and

a ventilation system including:

a solar powered generator;

20 a fan mounted within the vent tube; and

a rechargeable battery in communication with the fan and the solar powered generator.